



*alpha*

Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

28 May 2013

MedImmune

Attn: Michelle Oliva

297 North Bernardo Avenue

Mountain View, CA 94043

RE: Wastewater

Work Order: 13E0909

Enclosed are the results of analyses for samples received by the laboratory on 05/16/13 21:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

*Sheri Speaks*

Sheri L. Speaks For Robbie C. Phillips  
Project Manager



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## CHEMICAL EXAMINATION REPORT

Page 1 of 16

MedImmune  
297 North Bernardo Avenue  
Mountain View, CA 94043  
Attn: Michelle Oliva

Report Date: 05/28/13 09:19  
Project No: Wastewater- May & November  
Project ID: Wastewater

Order Number  
13E0909

Receipt Date/Time  
05/16/2013 21:10

Client Code  
SEL MEDIMUNNE

Client PO/Reference  
PO# 2000347633

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
297 Comp	13E0909-01	Water	05/16/13 10:15	05/16/13 21:10
297 Grab	13E0909-02	Water	05/15/13 10:15	05/16/13 21:10
319 A1 Comp	13E0909-03	Water	05/16/13 09:40	05/16/13 21:10
319 A1 Grab	13E0909-04	Water	05/15/13 09:40	05/16/13 21:10
319 A2 Comp	13E0909-05	Water	05/16/13 09:50	05/16/13 21:10
319 A2 Grab	13E0909-06	Water	05/15/13 09:50	05/16/13 21:10

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Bruce Gove  
Laboratory Director

5/28/2013



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Project No: Wastewater- May & November  
Project ID: Wastewater

Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13E0909	05/16/2013 21:10	SEL MEDIMUNNE	PO# 2000347633

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
<b>297 Comp (13E0909-01)</b>								
			<b>Sample Type: Water</b>		<b>Sampled: 05/16/13 10:15</b>			
<b>Metals by EPA 200 Series Methods</b>								
<b>Copper</b>	EPA 200.7	AE31730	05/22/13 11:10	05/23/13 13:33	1	<b>0.020 mg/l</b>	<b>0.020</b>	
Nickel	"	"	"	"	"	ND "	0.010	
Silver	"	"	"	"	"	ND "	0.010	
<b>Zinc</b>	"	"	"	"	"	<b>0.025 "</b>	<b>0.020</b>	
<b>297 Grab (13E0909-02)</b>								
			<b>Sample Type: Water</b>		<b>Sampled: 05/15/13 10:15</b>			
<b>Volatile Organic Compounds by EPA Method 624</b>								
Benzene	EPA 624	AE31726	05/17/13 08:00	05/17/13 19:10	1	ND ug/l	0.30	
Bromodichloromethane	"	"	"	"	"	ND "	0.50	
Bromoform	"	"	"	"	"	ND "	0.50	
Bromomethane	"	"	"	"	"	ND "	0.50	
Carbon tetrachloride	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
Chloroethane	"	"	"	"	"	ND "	0.50	
<b>Chloroform</b>	"	"	"	"	"	<b>15 "</b>	<b>0.50</b>	
Chloromethane	"	"	"	"	"	ND "	0.50	
Dibromochloromethane	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	"	ND "	0.50	

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13E0909	05/16/2013 21:10	SEL MEDIMUNNE	PO# 2000347633

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
297 Grab (13E0909-02)								
			Sample Type: Water		Sampled: 05/15/13 10:15			
Volatile Organic Compounds by EPA Method 624 (cont'd)								
Toluene	EPA 624	"	"	05/17/13 19:10	"	ND "	0.30	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.50	
Trichloroethene	"	"	"	"	"	ND "	0.50	
Trichlorotrifluoroethane (Freon 113)	"	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	
Surrogate: Bromofluorobenzene	"	"	"	"		93.7 %	81-135	
Surrogate: Dibromofluoromethane	"	"	"	"		87.5 %	46-130	
Surrogate: Toluene-d8	"	"	"	"		98.6 %	59-132	
319 A1 Comp (13E0909-03)								
			Sample Type: Water		Sampled: 05/16/13 09:40			
Metals by EPA 200 Series Methods								
Copper	EPA 200.7	AE31730	05/22/13 11:10	05/23/13 13:51	1	0.064 mg/l	0.020	
Nickel	"	"	"	"	"	ND "	0.010	
Silver	"	"	"	"	"	ND "	0.010	
Zinc	"	"	"	"	"	0.050 "	0.020	
319 A1 Grab (13E0909-04)								
			Sample Type: Water		Sampled: 05/15/13 09:40			
Volatile Organic Compounds by EPA Method 624								
Benzene	EPA 624	AE31726	05/17/13 08:00	05/17/13 19:44	10	ND ug/l	3.0	
Bromodichloromethane	"	"	"	"	"	ND "	5.0	
Bromoform	"	"	"	"	"	ND "	5.0	
Bromomethane	"	"	"	"	"	ND "	5.0	
Carbon tetrachloride	"	"	"	"	"	ND "	5.0	
Chlorobenzene	"	"	"	"	"	ND "	5.0	
Chloroethane	"	"	"	"	"	ND "	5.0	
Chloroform	"	"	"	"	"	25 "	5.0	
Chloromethane	"	"	"	"	"	ND "	5.0	
Dibromochloromethane	"	"	"	"	"	ND "	5.0	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	5.0	

R-04

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Order Number	Receipt Date/Time	Client Code	Client PO/Reference
13E0909	05/16/2013 21:10	SEL MEDIMUNNE	PO# 2000347633

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
319 A1 Grab (13E0909-04)	Sample Type: Water			Sampled: 05/15/13 09:40				
Volatile Organic Compounds by EPA Method 624 (cont'd)								R-04
1,3-Dichlorobenzene	EPA 624	"	"	05/17/13 19:44	"	ND "	5.0	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,2-Dichloroethane	"	"	"	"	"	ND "	5.0	
1,1-Dichloroethene	"	"	"	"	"	ND "	5.0	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	5.0	
1,2-Dichloropropane	"	"	"	"	"	ND "	5.0	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	5.0	
Ethylbenzene	"	"	"	"	"	ND "	5.0	
Methylene chloride	"	"	"	"	"	ND "	5.0	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	5.0	
Tetrachloroethene	"	"	"	"	"	ND "	5.0	
Toluene	"	"	"	"	"	ND "	3.0	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	5.0	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	5.0	
Trichloroethene	"	"	"	"	"	ND "	5.0	
Trichlorotrifluoroethane (Freon 113)	"	"	"	"	"	ND "	5.0	
Vinyl chloride	"	"	"	"	"	ND "	5.0	
Xylenes (total)	"	"	"	"	"	ND "	5.0	
Surrogate: Bromofluorobenzene	"	"	"	"		92.6 %	81-135	
Surrogate: Dibromofluoromethane	"	"	"	"		87.8 %	46-130	
Surrogate: Toluene-d8	"	"	"	"		96.4 %	59-132	

### 319 A2 Comp (13E0909-05)

Sample Type: Water

Sampled: 05/16/13 09:50

#### Metals by EPA 200 Series Methods

Copper	EPA 200.7	AE31730	05/22/13 11:10	05/23/13 13:55	1	0.035 mg/l	0.020
Nickel	"	"	"	"	"	ND "	0.010
Silver	"	"	"	"	"	ND "	0.010
Zinc	"	"	"	"	"	ND "	0.020

### 319 A2 Grab (13E0909-06)

Sample Type: Water

Sampled: 05/15/13 09:50

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SEL MEDIMUNNE

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PO# 2000347633

### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
319 A2 Grab (13E0909-06)	Sample Type: Water			Sampled: 05/15/13 09:50				
Volatile Organic Compounds by EPA Method 624								
Benzene	EPA 624	AE31726	05/17/13 08:00	05/17/13 20:17	1	ND ug/l	0.30	
Bromodichloromethane	"	"	"	"	"	ND "	0.50	
Bromoform	"	"	"	"	"	ND "	0.50	
Bromomethane	"	"	"	"	"	ND "	0.50	
Carbon tetrachloride	"	"	"	"	"	ND "	0.50	
Chlorobenzene	"	"	"	"	"	ND "	0.50	
Chloroethane	"	"	"	"	"	ND "	0.50	
Chloroform	"	"	"	"	"	1.4 "	0.50	
Chloromethane	"	"	"	"	"	ND "	0.50	
Dibromochloromethane	"	"	"	"	"	ND "	0.50	
1,2-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,3-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,4-Dichlorobenzene	"	"	"	"	"	ND "	0.50	
1,1-Dichloroethane	"	"	"	"	"	ND "	0.50	
1,2-Dichloroethane	"	"	"	"	"	ND "	0.50	
1,1-Dichloroethene	"	"	"	"	"	ND "	0.50	
trans-1,2-Dichloroethene	"	"	"	"	"	ND "	0.50	
1,2-Dichloropropane	"	"	"	"	"	ND "	0.50	
cis-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50	
trans-1,3-Dichloropropene	"	"	"	"	"	ND "	0.50	
Ethylbenzene	"	"	"	"	"	ND "	0.50	
Methylene chloride	"	"	"	"	"	ND "	0.50	
1,1,2,2-Tetrachloroethane	"	"	"	"	"	ND "	0.50	
Tetrachloroethene	"	"	"	"	"	ND "	0.50	
Toluene	"	"	"	"	"	ND "	0.30	
1,1,1-Trichloroethane	"	"	"	"	"	ND "	0.50	
1,1,2-Trichloroethane	"	"	"	"	"	ND "	0.50	
Trichloroethene	"	"	"	"	"	ND "	0.50	
Trichlorotrifluoroethane (Freon 113)	"	"	"	"	"	ND "	0.50	
Vinyl chloride	"	"	"	"	"	ND "	0.50	
Xylenes (total)	"	"	"	"	"	ND "	0.50	

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**Alpha Analytical Laboratories, Inc.**

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
319 A2 Grab (13E0909-06)			Sample Type: Water			Sampled: 05/15/13 09:50		
Volatile Organic Compounds by EPA Method 624 (cont'd)								
Surrogate: Bromofluorobenzene	EPA 624	"	"	05/17/13 20:17		94.8 %	81-135	
Surrogate: Dibromofluoromethane	"	"	"	"		90.7 %	46-130	
Surrogate: Toluene-d8	"	"	"	"		101 %	59-132	

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PO# 2000347633

### Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31730 - Metals Digest</b>										
<b>Blank (AE31730-BLK1)</b>				Prepared: 05/17/13 Analyzed: 05/22/13						
Copper	ND	0.020	mg/l							
Nickel	ND	0.010	"							
Silver	ND	0.010	"							
Zinc	ND	0.020	"							
<b>LCS (AE31730-BS1)</b>				Prepared: 05/17/13 Analyzed: 05/22/13						
Copper	0.214	0.020	mg/l	0.206		104	85-115			
Nickel	0.191	0.010	"	0.200		95.4	85-115			
Silver	0.182	0.010	"	0.200		91.2	85-115			
Zinc	0.191	0.020	"	0.200		95.7	85-115			
<b>Duplicate (AE31730-DUP1)</b>				<b>Source: 13E0737-03</b>		Prepared: 05/17/13 Analyzed: 05/23/13				
Copper	0.0898	0.020	mg/l		0.0797			12.0	20	
Nickel	0.00213	0.010	"		ND				20	
Silver	0.00116	0.010	"		ND				20	
Zinc	0.212	0.020	"		0.194			9.24	20	
<b>Matrix Spike (AE31730-MS1)</b>				<b>Source: 13E0737-03</b>		Prepared: 05/17/13 Analyzed: 05/22/13				
Copper	0.306	0.020	mg/l	0.206	0.0797	110	70-130			
Nickel	0.192	0.010	"	0.200	ND	96.1	70-130			
Silver	0.192	0.010	"	0.200	ND	95.5	70-130			
Zinc	0.394	0.020	"	0.200	0.194	100	70-130			
<b>Matrix Spike (AE31730-MS2)</b>				<b>Source: 13E0874-01</b>		Prepared: 05/17/13 Analyzed: 05/22/13				
Copper	0.296	0.020	mg/l	0.206	0.0781	106	70-130			
Nickel	0.191	0.010	"	0.200	ND	95.3	70-130			
Silver	0.182	0.010	"	0.200	ND	90.5	70-130			

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**Metals by EPA 200 Series Methods - Quality Control**

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31730 - Metals Digest</b>										
<b>Matrix Spike (AE31730-MS2)</b>		<b>Source: 13E0874-01</b>		Prepared: 05/17/13 Analyzed: 05/22/13						
Zinc	0.231	0.020	"	0.200	0.0390	96.0	70-130			
<b>Matrix Spike Dup (AE31730-MSD1)</b>		<b>Source: 13E0737-03</b>		Prepared: 05/17/13 Analyzed: 05/22/13						
Copper	0.314	0.020	mg/l	0.206	0.0797	114	70-130	2.38	20	
Nickel	0.192	0.010	"	0.200	ND	96.0	70-130	0.0855	20	
Silver	0.196	0.010	"	0.200	ND	97.7	70-130	2.26	20	
Zinc	0.401	0.020	"	0.200	0.194	104	70-130	1.89	20	

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SEL MEDIMUNNE

Client PO/Reference  
PO# 2000347633

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>Blank (AE31726-BLK1)</b>				Prepared & Analyzed: 05/17/13						
Benzene	ND	0.30	ug/l							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	0.50	"							
trans-1,2-Dichloroethene	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Methylene chloride	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
Tetrachloroethene	ND	0.50	"							
Toluene	ND	0.30	"							
1,1,2-Trichloroethane	ND	0.50	"							

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Bruce Gove  
Laboratory Director

5/28/2013



Alpha Analytical Laboratories Inc.

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## CHEMICAL EXAMINATION REPORT

Page 10 of 16

MedImmune  
297 North Bernardo Avenue  
Mountain View, CA 94043  
Attn: Michelle Oliva

Report Date: 05/28/13 09:19  
Project No: Wastewater- May & November  
Project ID: Wastewater

Order Number  
13E0909

Receipt Date/Time  
05/16/2013 21:10

Client Code  
SEL MEDIMUNNE

Client PO/Reference  
PO# 2000347633

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>Blank (AE31726-BLK1)</b>				Prepared & Analyzed: 05/17/13						
1,1,1-Trichloroethane	ND	0.50	"							
Trichloroethene	ND	0.50	"							
Trichlorotrifluoroethane (Freon 113)	ND	0.50	"							
Vinyl chloride	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Surrogate: Bromofluorobenzene	25.1		"	25.0		100	81-135			
Surrogate: Dibromofluoromethane	19.3		"	25.0		77.3	46-130			
Surrogate: Toluene-d8	22.8		"	25.0		91.4	59-132			
<b>LCS (AE31726-BS1)</b>				Prepared: 05/08/13 Analyzed: 05/17/13						
Benzene	21.5	0.30	ug/l	20.0		107	82-122			
Bromodichloromethane	22.7	0.50	"	20.0		113	86-135			
Bromoform	23.5	0.50	"	20.0		118	76-144			
Bromomethane	18.9	0.50	"	20.0		94.6	69-145			
Carbon tetrachloride	18.9	0.50	"	20.0		94.3	77-134			
Chlorobenzene	20.8	0.50	"	20.0		104	84-119			
Chloroethane	23.6	0.50	"	20.0		118	68-133			
Chloroform	21.4	0.50	"	20.0		107	81-122			
Chloromethane	21.6	0.50	"	20.0		108	63-129			
Dibromochloromethane	23.0	0.50	"	20.0		115	83-135			
1,2-Dichlorobenzene	20.8	0.50	"	20.0		104	84-121			
1,3-Dichlorobenzene	20.9	0.50	"	20.0		105	80-120			
1,4-Dichlorobenzene	20.1	0.50	"	20.0		100	84-120			
1,1-Dichloroethane	22.1	0.50	"	20.0		110	81-126			
1,2-Dichloroethane	19.3	0.50	"	20.0		96.3	77-117			
1,1-Dichloroethene	21.5	0.50	"	20.0		108	71-151			

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MedImmune  
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### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>LCS (AE31726-BS1)</b>				Prepared: 05/08/13 Analyzed: 05/17/13						
trans-1,2-Dichloroethene	21.6	0.50	"	20.0		108	79-128			
1,2-Dichloropropane	22.3	0.50	"	20.0		112	82-125			
cis-1,3-Dichloropropene	19.2	0.50	"	20.0		96.0	83-128			
trans-1,3-Dichloropropene	17.6	0.50	"	20.0		88.2	67-129			
Ethylbenzene	22.8	0.50	"	20.0		114	84-124			
Methylene chloride	20.5	0.50	"	20.0		102	72-132			
1,1,2,2-Tetrachloroethane	18.8	0.50	"	20.0		94.0	84-115			
Tetrachloroethene	21.2	0.50	"	20.0		106	56-156			
Toluene	21.4	0.30	"	20.0		107	76-137			
1,1,1-Trichloroethane	18.9	0.50	"	20.0		94.5	70-130			
1,1,2-Trichloroethane	20.6	0.50	"	20.0		103	83-122			
Trichloroethene	22.6	0.50	"	20.0		113	84-123			
Trichlorotrifluoroethane (Freon 113)	21.4	0.50	"	20.0		107	82-125			
Vinyl chloride	24.8	0.50	"	20.0		124	70-130			
Xylenes (total)	64.9	0.50	"	60.0		108	81-126			
Surrogate: Bromofluorobenzene	24.9		"	25.0		99.6	81-135			
Surrogate: Dibromofluoromethane	19.8		"	25.0		79.1	46-130			
Surrogate: Toluene-d8	22.0		"	25.0		88.1	59-132			
<b>LCS Dup (AE31726-BS1)</b>				Prepared: 05/08/13 Analyzed: 05/17/13						
Benzene	20.8	0.30	ug/l	20.0		104	82-122	3.12	25	
Bromodichloromethane	22.8	0.50	"	20.0		114	86-135	0.484	25	
Bromoform	23.2	0.50	"	20.0		116	76-144	1.28	25	
Bromomethane	19.0	0.50	"	20.0		95.0	69-145	0.422	25	
Carbon tetrachloride	17.2	0.50	"	20.0		86.2	77-134	9.03	25	
Chlorobenzene	20.4	0.50	"	20.0		102	84-119	1.80	25	

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## CHEMICAL EXAMINATION REPORT

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SEL MEDIMUNNE

Client PO/Reference  
PO# 2000347633

### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>LCS Dup (AE31726-BSD1)</b>				Prepared: 05/08/13 Analyzed: 05/17/13						
Chloroethane	21.2	0.50	"	20.0		106	68-133	10.9	25	
Chloroform	21.0	0.50	"	20.0		105	81-122	1.65	25	
Chloromethane	19.6	0.50	"	20.0		98.0	63-129	9.57	25	
Dibromochloromethane	22.8	0.50	"	20.0		114	83-135	0.699	25	
1,2-Dichlorobenzene	20.6	0.50	"	20.0		103	84-121	0.773	25	
1,3-Dichlorobenzene	20.6	0.50	"	20.0		103	80-120	1.39	25	
1,4-Dichlorobenzene	19.6	0.50	"	20.0		98.0	84-120	2.37	25	
1,1-Dichloroethane	21.8	0.50	"	20.0		109	81-126	1.46	25	
1,2-Dichloroethane	19.0	0.50	"	20.0		94.9	77-117	1.46	25	
1,1-Dichloroethene	18.5	0.50	"	20.0		92.7	71-151	15.0	25	
trans-1,2-Dichloroethene	20.7	0.50	"	20.0		103	79-128	4.49	25	
1,2-Dichloropropane	22.4	0.50	"	20.0		112	82-125	0.536	25	
cis-1,3-Dichloropropene	20.0	0.50	"	20.0		99.8	83-128	3.93	25	
trans-1,3-Dichloropropene	18.3	0.50	"	20.0		91.4	67-129	3.57	25	
Ethylbenzene	21.7	0.50	"	20.0		109	84-124	4.63	25	
Methylene chloride	19.5	0.50	"	20.0		97.6	72-132	4.65	25	
1,1,2,2-Tetrachloroethane	18.3	0.50	"	20.0		91.4	84-115	2.86	25	
Tetrachloroethene	19.4	0.50	"	20.0		97.2	56-156	8.71	25	
Toluene	20.8	0.30	"	20.0		104	76-137	2.89	25	
1,1,1-Trichloroethane	17.6	0.50	"	20.0		88.0	70-130	7.18	25	
1,1,2-Trichloroethane	19.8	0.50	"	20.0		99.0	83-122	3.82	25	
Trichloroethene	20.7	0.50	"	20.0		103	84-123	8.79	25	
Trichlorotrifluoroethane (Freon 113)	17.4	0.50	"	20.0		87.2	82-125	20.7	30	
Vinyl chloride	20.8	0.50	"	20.0		104	70-130	17.6	25	
Xylenes (total)	63.1	0.50	"	60.0		105	81-126	2.87	25	
Surrogate: Bromofluorobenzene	25.2		"	25.0		101	81-135			

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## CHEMICAL EXAMINATION REPORT

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Mountain View, CA 94043  
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Report Date: 05/28/13 09:19  
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### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>LCS Dup (AE31726-BSD1)</b>				Prepared: 05/08/13 Analyzed: 05/17/13						
Surrogate: Dibromofluoromethane	20.1		"	25.0		80.5	46-130			
Surrogate: Toluene-d8	22.0		"	25.0		87.8	59-132			
<b>Matrix Spike (AE31726-MS1)</b>				Source: 13E0431-01 Prepared & Analyzed: 05/17/13						
Benzene	23.0	0.30	ug/l	20.0	ND	115	58-139			
Bromodichloromethane	23.6	0.50	"	20.0	ND	117	62-140			
Bromoform	22.4	0.50	"	20.0	ND	112	47-165			
Bromomethane	20.8	0.50	"	20.0	ND	104	30-163			
Carbon tetrachloride	21.4	0.50	"	20.0	ND	107	65-153			
Chlorobenzene	22.0	0.50	"	20.0	ND	110	58-137			
Chloroethane	29.6	0.50	"	20.0	ND	148	59-141			QM-05
Chloroform	23.6	0.50	"	20.0	1.03	113	36-151			
Chloromethane	23.4	0.50	"	20.0	ND	117	69-149			
Dibromochloromethane	23.8	0.50	"	20.0	ND	119	54-157			
1,2-Dichlorobenzene	21.7	0.50	"	20.0	ND	108	57-137			
1,3-Dichlorobenzene	21.9	0.50	"	20.0	ND	109	54-137			
1,4-Dichlorobenzene	21.2	0.50	"	20.0	ND	106	61-131			
1,1-Dichloroethane	23.5	0.50	"	20.0	ND	118	64-136			
1,2-Dichloroethane	19.4	0.50	"	20.0	ND	97.1	58-133			
1,1-Dichloroethene	24.6	0.50	"	20.0	ND	123	45-178			
trans-1,2-Dichloroethene	23.7	0.50	"	20.0	ND	119	59-151			
1,2-Dichloropropane	23.2	0.50	"	20.0	ND	116	62-128			
cis-1,3-Dichloropropene	19.2	0.50	"	20.0	ND	96.0	50-140			
trans-1,3-Dichloropropene	17.6	0.50	"	20.0	ND	88.2	40-144			
Ethylbenzene	24.8	0.50	"	20.0	ND	124	59-147			
Methylene chloride	20.3	0.50	"	20.0	ND	101	43-143			

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## CHEMICAL EXAMINATION REPORT

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### Volatile Organic Compounds by EPA Method 624 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>Matrix Spike (AE31726-MS1)</b>		<b>Source: 13E0431-01</b>			Prepared & Analyzed: 05/17/13					
1,1,2,2-Tetrachloroethane	18.2	0.50	"	20.0	ND	91.0	73-127			
Tetrachloroethene	23.8	0.50	"	20.0	ND	119	49-148			
Toluene	22.9	0.30	"	20.0	ND	115	59-147			
1,1,1-Trichloroethane	20.6	0.50	"	20.0	ND	103	62-144			
1,1,2-Trichloroethane	20.6	0.50	"	20.0	ND	103	62-129			
Trichloroethene	23.8	0.50	"	20.0	ND	119	58-140			
Trichlorotrifluoroethane (Freon 113)	24.7	0.50	"	20.0	ND	123	59-139			
Vinyl chloride	28.8	0.50	"	20.0	ND	144	53-160			
Xylenes (total)	69.5	0.50	"	60.0	ND	116	49-153			
Surrogate: Bromofluorobenzene	23.7		"	25.0		94.8	81-135			
Surrogate: Dibromofluoromethane	22.6		"	25.0		90.2	46-130			
Surrogate: Toluene-d8	24.2		"	25.0		96.6	59-132			
<b>Matrix Spike Dup (AE31726-MSD1)</b>		<b>Source: 13E0431-01</b>			Prepared & Analyzed: 05/17/13					
Benzene	22.7	0.30	ug/l	20.0	ND	114	58-139	1.36	25	
Bromodichloromethane	24.2	0.50	"	20.0	ND	120	62-140	2.55	25	
Bromoform	23.7	0.50	"	20.0	ND	118	47-165	5.64	25	
Bromomethane	25.5	0.50	"	20.0	ND	128	30-163	20.4	25	
Carbon tetrachloride	22.6	0.50	"	20.0	ND	113	65-153	5.86	25	
Chlorobenzene	21.9	0.50	"	20.0	ND	110	58-137	0.501	25	
Chloroethane	25.0	0.50	"	20.0	ND	125	59-141	17.0	25	
Chloroform	23.5	0.50	"	20.0	1.03	112	36-151	0.595	25	
Chloromethane	25.1	0.50	"	20.0	ND	126	69-149	6.88	25	
Dibromochloromethane	24.2	0.50	"	20.0	ND	121	54-157	1.71	25	
1,2-Dichlorobenzene	21.7	0.50	"	20.0	ND	108	57-137	0.138	25	
1,3-Dichlorobenzene	21.5	0.50	"	20.0	ND	108	54-137	1.66	25	

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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE31726 - VOAs in Water GCMS</b>										
<b>Matrix Spike Dup (AE31726-MSD1)</b>		<b>Source: 13E0431-01</b>		Prepared & Analyzed: 05/17/13						
1,4-Dichlorobenzene	20.9	0.50	"	20.0	ND	105	61-131	0.998	25	
1,1-Dichloroethane	23.8	0.50	"	20.0	ND	119	64-136	1.23	25	
1,2-Dichloroethane	19.2	0.50	"	20.0	ND	95.8	58-133	1.35	25	
1,1-Dichloroethene	24.8	0.50	"	20.0	ND	124	45-178	1.01	25	
trans-1,2-Dichloroethene	23.6	0.50	"	20.0	ND	118	59-151	0.635	25	
1,2-Dichloropropane	23.2	0.50	"	20.0	ND	116	62-128	0.172	25	
cis-1,3-Dichloropropene	20.7	0.50	"	20.0	ND	103	50-140	7.43	25	
trans-1,3-Dichloropropene	19.5	0.50	"	20.0	ND	97.5	40-144	10.1	25	
Ethylbenzene	24.7	0.50	"	20.0	ND	124	59-147	0.162	25	
Methylene chloride	20.2	0.50	"	20.0	ND	101	43-143	0.445	25	
1,1,2,2-Tetrachloroethane	18.3	0.50	"	20.0	ND	91.3	73-127	0.384	25	
Tetrachloroethene	24.0	0.50	"	20.0	ND	120	49-148	0.669	25	
Toluene	23.2	0.30	"	20.0	ND	116	59-147	1.13	25	
1,1,2-Trichloroethane	20.4	0.50	"	20.0	ND	102	62-129	1.12	25	
1,1,1-Trichloroethane	21.8	0.50	"	20.0	ND	109	62-144	5.76	25	
Trichloroethene	24.2	0.50	"	20.0	ND	121	58-140	1.75	25	
Trichlorotrifluoroethane (Freon 113)	24.3	0.50	"	20.0	ND	122	59-139	1.43	30	
Vinyl chloride	27.2	0.50	"	20.0	ND	136	53-160	5.75	25	
Xylenes (total)	69.4	0.50	"	60.0	ND	116	49-153	0.0720	25	
Surrogate: Bromofluorobenzene	23.8		"	25.0		95.2	81-135			
Surrogate: Dibromofluoromethane	22.0		"	25.0		88.0	46-130			
Surrogate: Toluene-d8	23.7		"	25.0		94.9	59-132			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Bruce Gove  
Laboratory Director

5/28/2013





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## CHEMICAL EXAMINATION REPORT

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MedImmune  
297 North Bernardo Avenue  
Mountain View, CA 94043  
Attn: Michelle Oliva

Report Date: 05/28/13 09:19  
Project No: Wastewater- May & November  
Project ID: Wastewater

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
13E0909	05/16/2013 21:10	SEL MEDIMUNNE	PO# 2000347633

### Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

R-04 The Reporting Limits for this analysis are elevated due to sample foaming.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

PQL Practical Quantitation Limit

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Bruce Gove  
Laboratory Director

5/28/2013

